



Robot Inspection Checklist

Team Number: _____ Robot Inspection Status (circle): PASS / FAIL

Team	.dsul	Robot Size Inspection	Rule #
		Robot is presented at inspection with all mechanisms (including all components of each mechanism), configurations, and decorations that will be used on the Robot.	<106>
		Separately test the Robot in all of its unique starting (pre-match setup) configurations. The	<106>a
		Robot fits within the Sizing Tool without exerting undue force on the Sizing Tool sides and top.	<rg02></rg02>
		Robot Motion Warning Label is attached if servo motors move during the Robot initialization.	<rg02></rg02>
\checkmark	>	General Robot Rules	Rule #
		Robot does not contain any components that could damage the Playing Field or other Robots.	<rg01>a&b</rg01>
		Robot does not contain materials that are hazardous.	<rg01>c</rg01>
		Robot poses no obvious unnecessary risk of entanglement.	<rg01>d</rg01>
		Robot does not contain sharp edges or corners.	<rg01>e</rg01>
		Robot does not contain animal-based, liquid, or gel materials.	<rg01>f&g</rg01>
		Robot does not contain materials that would cause a delay of game if released.	<rg01>h</rg01>
		Robot does not contain elements that electrically ground the Robot frame to the Playing Field.	<rg01>i</rg01>
		Robot does not contain closed gas, hydraulic, or vacuum based devices.	<rg01>j,k&l</rg01>
		Team number is visible from at least 2 opposite sides and meets requirements. Alliance Markers are present and meet requirements.	<rg04> <rg05></rg05></rg04>
		Energy used by the Robot shall come only from approved sources.	<rg05></rg05>
		Robot is not capable of detaching its own components.	<rg00></rg00>
✓	✓	Robot Mechanical Parts and Materials Rules	Rule #
	•	All components on the Robot are from allowable raw materials and Commercial Off The Shelf products.	<rm01> <rm02> <rm06></rm06></rm02></rm01>
✓	✓	Robot Electrical Parts and Materials Rules	Rule #
V	V	Exactly one Main Power Switch is installed properly, labeled, readily accessible, and visible. The TETRIX, REV, and MATRIX switches are the only allowed Main Power Switch.	<re01></re01>
			<inlu1></inlu1>
		All batteries are securely attached to the Robot in a location where they will not make direct contact with other Robots or the Playing Field.	<re02></re02>
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		Exactly one Robot Controller (a) smartphone Android Device + REV Expansion Hub or b) REV	<re06></re06>
		Control Hub) is required. One additional REV Expansion Hub is allowed.	<re08></re08>
		The only allowed Motor and Servo Controllers are: REV Expansion Hub, REV Control Hub, REV	\(\(\text{L00}\)
		Servo Power Module, REV Spark Mini Motor Controller, and VEX Motor Controller 29.	<re09></re09>
		Robot contains no more than eight (8) DC motors of the allowed models.	<re10></re10>
		Robot contains no more than twelve (12) servos. They must be compatible with the attached	CINE 102
		REV Expansion Hub, REV Control Hub, REV Servo Power Module, or VEX Motor Controller 29	<re11></re11>
		and not exceed the manufacturer specifications for the controller.	
		Robot contains only allowed sensors and they are connected only to the REV Expansion Hub or	
		the REV Control Hub.	<re12></re12>
		Power and motor control wires have consistent color coding with different colors used for the	
		positive (red, white, brown, or black with a stripe) and Negative/Common (black or blue) wires.	<re15>f</re15>
			DE45 :
		Power, motor control, servo and sensor wires are the correct size.	<re15>i</re15>
		If electronics are grounded to the <i>Robot</i> frame, the only approved method is the REV Robotics	DE45 1
		Resistive Grounding Strap. If needed, the REV Robotics Anderson Powerpole to XT30 adapter	<re15>k</re15>
		may connect to the Resistive Grounding Strap. No other grounding straps or cables are allowed.	
		Approved electrical and electronic devices may be modified to make them more usable; they	<re16></re16>
_	^	may not be modified internally or in any way that affects their safety.	5.1."
✓	\checkmark	Wheel/Tread Playing Field Damage Test - Optional	Rule #
		Robot did not damage the Playing Field tile. [This is an optional test that is performed only when	<107>
•	•	an Inspector believes that the drivetrain tread may damage a Playing Field tile.]	<107>
✓	✓	an Inspector believes that the drivetrain tread may damage a Playing Field tile.] Team Scoring Element (TSE) Inspection	<107> Rule #
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Gene	General Comment(s) or Reason(s) for Failure (if any):						

Robot Inspector